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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,269	03/05/2002	Tadahiro Ohmi	8075-1055	2418

466 7590 10/29/2010
YOUNG & THOMPSON
209 Madison Street
Suite 500
Alexandria, VA 22314

EXAMINER

CHEVALIER, ALICIA ANN

ART UNIT	PAPER NUMBER
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1783

NOTIFICATION DATE	DELIVERY MODE
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10/29/2010

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DocketingDept@young-thompson.com

Office Action Summary	Application No. 09/889,269	Applicant(s) OHMI ET AL.	
	Examiner ALICIA CHEVALIER	Art Unit 1783	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 September 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5,6,9 and 13-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5,6,9 and 13-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

RESPONSE TO AMENDMENT

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 1, 2010 has been entered.
2. Claims 5, 6, 9 and 13-21 are pending in the application, claims 1-4, 7, 8 and 10-12 have been cancelled.
3. Amendments to the claims, filed on August 4, 2010, have been entered in the above-identified application.

REJECTIONS

4. **The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.**
5. Claims 5, 6, 9, 13-16 and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carbo et al. (U.S. Patent No. 4,507,339) in view of Uchida et al. (U.S. Patent No. 4,248,676) and Ohmi (US Patent No. 5,656,099).

Carbo discloses a structure, article comprising a metallic material with a matte surface (*col. 4, lines 64-67*) and a chromium-oxide passivation film (*chromium/chromium oxide surface treatment*) disposed on the metallic material surface (*col. 2, lines 20-23*).

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Carbo fails to disclose that the matte surface of the metallic material has a surface roughness (Ra) not more than 1.5 μm or that the passivation film has pin holes which are filled..

Uchida discloses a steel plate that is passivated and made corrosion resistant with a chromium layer having pin holes which are filled in/sealed (*figure 5, col. 6, lines 14-29*). The filled pin holes prevent crack formations during general processing (*col. 10, lines 26-30*). The surface roughness of the matte finished initial steel plate is 0.8-3 μm (*col. 10, lines 63-65*). The metallic body surface is deemed to define a continuous boundary between the metallic body and the chromium-oxide deposit.

The exact surface roughness of the metallic material is deemed to be a result effective variable with regard to the adherence of the coating. It would require routine experimentation to determine the optimum value of a result effective variable, such as surface roughness, in the absence of a showing of criticality in the claimed surface roughness. MPEP 2144.05 II B. One of ordinary skill in the art would have been motivated by Uchida to have a surface roughness of 0.8-3 μm in order to achieve a metallic matte surface.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have filed pin holes in the passivation film of Carbo as taught by Uchida in order to prevent crack formations during general processing.

Carbo further fails to disclose that the chromium-oxide deposit consists, i.e. substantially 100% chromium-oxide, of chromium-oxide, at least approximately 30 nm from an outermost surface of the film.

Ohmi discloses a metallic material provided with a chromium oxide passivation film comprising a passivation film consisting of chromium oxide on the metallic material (*col. 2, lines*

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33-45). Ohmi further discloses that the improved corrosion resistant properties have been obtained through the use of passivation films consisting of chromium oxide (*col. 2, lines 24-38*).

It would have been obvious to one of ordinary skill in the art to use a chromium oxide as the passivation film in the combination of Carbo and Uchida as taught by Ohmi because of the improved corrosion resistance gained by layer consisting only of chromium oxide. Since the passivation film consists of chromium oxide at least approximately 30 nm from an outermost surface of the chromium-oxide passivation film will consist of 100% chromium-oxide.

The limitation “chromium-oxide passivation film formed by ...” is a method limitation and does not determine the patentability of the product, unless the process produces unexpected results. The method of forming the product is not germane to the issue of patentability of the product itself, unless Applicant presents evidence from which the Examiner could reasonably conclude that the claimed product differs in kind from those of the prior art. MPEP 2113. Furthermore, there does not appear to be a difference between the prior art structure and the structure resulting from the claimed method because Carbo discloses a chromium-oxide passivation film on the metallic body.

ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in the response filed August 4, 2010 regarding the previous rejections of record have been considered but are moot since the rejections have been withdrawn.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Thursday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Sample can be reached on (571) 272-1376. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alicia Chevalier/
Primary Examiner, Art Unit 1783
10/26/2010